

ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව
இலங்கைப் பரீட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம்
Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka
ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව
இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம்
Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka

GIT 01 E I, II

සාමාන්‍ය තොරතුරු තාක්ෂණ විභාගය, 2016
பொதுத் தகவல் தொழினுட்பவியல், 2016
General Information Technology Examination, 2016

සාමාන්‍ය තොරතුරු තාක්ෂණය I, II
பொதுத் தகவல் தொழினுட்பவியல் I, II
General Information Technology I, II

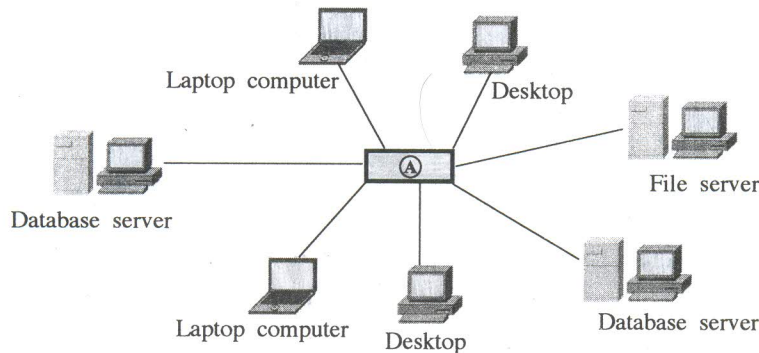
පැය තුනයි
மூன்று மணித்தியாலம்
Three hours

General Information Technology I

Important :

- * Answer all questions on the Answer Sheet provided.
- * Write your **Index Number** in the space provided on the answer sheet.
- * Instructions are given on the back of the answer sheet. Follow them carefully.
- * In each of the questions 1 to 40, pick one of the alternatives (1), (2), (3), (4) which is **correct or most appropriate** and mark your response on the answer sheet in accordance with the instructions given therein.

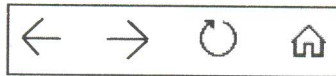
- Which of the following binary numbers is equivalent to the decimal number 35?
(1) 100001 (2) 100011 (3) 101011 (4) 101010
- Which of the following symbols should always be included in an email address?
(1) : (2) @ (3) _ (4) /
- Consider the following diagram:




Which of the following devices represents (A) in the local area network (LAN) as shown in the above diagram?

- (1) Gateway (2) Network Interface Card
(3) Switch (4) Modem
- Consider the following application packages.
A - Database packages
B - Presentation packages
C - Spreadsheet packages
Which of the above can be used to store and process data?
(1) A and B only (2) A and C only (3) B and C only (4) All A, B and C
- Which of the following is the correct form of a URL?
(1) http://www.doenets.lk/exam/ (2) http://www.doenets.lk/exam/
(3) html://www.doenets.lk/exam/ (4) http:\\www.doenets.lk\\exam\\

6. Following figure shows a part of a tool bar of a typical web browser.



Select the most appropriate outcome if you click on the active  button.

- (1) Move to the previous web page or website (2) Always move to the homepage of the website
(3) Move to the next website (4) Close the web browser
7. Which of the following is recommended to avoid health issues experienced in working with a computer for a long time?
- (1) Taking a break in every 30 minutes
(2) Using a computer with a smaller screen
(3) Using the keyboard more frequently than the mouse
(4) Playing more enjoyable computer games
8. What is the utility tool in an operating system that can be used to optimize the performance of a disk by changing non-contiguous files to contiguous files?
- (1) Character Map (2) Resource Monitor (3) Disk Cleanup (4) Disk Defragmenter
9. Which of the following features are available in word processing software?
- A - Spell Checker and Thesaurus
B - Page Orientation
C - Mail merge
- (1) A and B only (2) A and C only (3) B and C only (4) All A, B and C
10. Which of the following decimal numbers is equivalent to the binary number 10001011?
- (1) 113 (2) 139 (3) 213 (4) 231
11. Consider the following statement with two blank spaces:
The Internet is a(n) _____ whereas the Web is a(n) _____.
Which of the following are the most appropriate terms respectively to fill in the blanks of the above statement?
- (1) network of computer networks, Uniform Resource Locator (URL)
(2) network of computer networks, collection of information
(3) information resource, physical connection
(4) collection of servers, network connection
12. Consider the following statements:
A - Twisted pair cables use copper as the medium to transmit data
B - Optical fibre cables use light waves to transmit data
C - Data transmission speed of twisted pair cables is higher than optical fibre cables
Which of the following is correct?
- (1) A and B only (2) A and C only (3) B and C only (4) All A, B and C
13. Which of the following combinations show the services of the Internet only?
- (1) email and HTTP (2) email and Web browsers
(3) email and File transfer (4) HTTP and File transfer
14. Consider the following statement with a blank space:
In a database a _____ uses rows and columns to store a data set.
Which of the following is the most appropriate term to fill in the blank of the above statement?
- (1) query (2) table (3) record (4) field
15. Which of the following are examples for database management systems (DBMS) only?
- (1) MS Access, MySQL, OpenOffice.org Base
(2) MS Access, Excel, MySQL
(3) DB2, Excel, MySQL
(4) MS Access, MySQL, Excel
16. Consider the following statement with a blank space:
A _____ contains the information for a single entity in the database.
Which of the following is the most appropriate term to fill in the blank of the above statement?
- (1) table (2) cell (3) field (4) column

17. Three observations and possible causes are given in column 1 and column 2 respectively, but not in the correct order.

Observation	Cause
① Files in a folder are automatically replicated	Ⓟ A backup was not taken
② Unable to recover an accidentally deleted file	Ⓠ Possible virus infection
③ The message 'No disk space' appears when attempting to save a file	Ⓡ Hard disk is filled with files

Which of the following gives the correct order for the observations in column 1 to causes in column 2?

- (1) ① → Ⓟ, ② → Ⓡ, ③ → Ⓠ (2) ① → Ⓟ, ② → Ⓠ, ③ → Ⓡ
 (3) ① → Ⓠ, ② → Ⓟ, ③ → Ⓡ (4) ① → Ⓡ, ② → Ⓠ, ③ → Ⓟ
18. Consider the following statements:
- A - In a distance learning environment students can access learning materials from their home any time and attend to the lessons conveniently especially when they are unable to participate in traditional classroom teaching.
- B - Using modern technology such as mobile devices, the government can provide up to date information to farmers such as the possible crops to be cultivated, current prices of crops etc.
- C - The modern technology facilitates the general public to reserve tickets in long distance trains and buses using mobile devices.
- Which of the above statements are examples for e-services?
- (1) A and B only (2) A and C only (3) B and C only (4) All A, B and C

19. In which of the following ways a virus may transmit to your computer?

A - by email or by an attachment of an email
 B - by downloading material from the Internet
 C - by sharing removable storage devices such as a flash memory stick.

- (1) A and B only (2) A and C only (3) B and C only (4) All A, B and C

20. Consider the following statements.

A - MS-DOS is an operating system which uses a command line interface (CLI).
 B - Isuru Linux and Hantana Linux are two open source operating systems localized by Sri Lankans.
 C - Microsoft Windows is an operating system without a graphical user interface (GUI).

Which of the above statements are correct?

- (1) A and B only (2) A and C only (3) B and C only (4) All A, B and C

21. Which of the following tool in word processing software is used to view paragraph marks and other hidden formatting symbols in a document?

- (1)  (2)  (3)  (4) 

22. Assume that you have just finished typing a two page document using a word processing software and your printer is in ready mode. What is the most suitable way to print this document?

- (1) Using Print Screen key (2) Using CTRL + P key combination
 (3) Using ALT + P key combination (4) Using CTRL+ Enter key combination

23. Bhanu is editing a document he created yesterday. Which of the following statements related to saving his file is correct?

- (1) 'save' option saves the file with a different name.
 (2) 'save as' option saves the file with the same name or different name.
 (3) 'CTRL + V' key combination saves the file with the same name.
 (4) 'CTRL + C' key combination saves the file with the same name.

24. Which of the following statements related to spreadsheet software are correct?

A - In spreadsheets, data are displayed as rows and columns.
 B - The intersection of a row and a column is called as a cell.
 C - The cell address of the 'Home' position of a worksheet is 1A.

- (1) A and B only (2) A and C only (3) B and C only (4) All A, B and C

25. Cell values in a worksheet are given as follows:

A1 = 2 B1 = 3 C1 = 4 D1 = 5

The formula $=(A1+B1)/C1*D1$ has been entered in cell B4. What is the value displayed in cell B4?

- (1) 3.25 (2) 4 (3) 4.25 (4) 6.25

26. Consider the following statements related to presentation software:

A - Pressing the key P within a slide show will display the previous slide.

B - Using CTRL + N key combination will insert a new slide.

C - Slide sorter view can be used to view more than one slide in the screen.

Which of the above statement(s) is/are correct?

- (1) A and B only (2) A and C only (3) B and C only (4) All A, B and C

27. A school decides to obtain the services of a Computer Applications Assistant to help in the day to day work in its office. Experience in which of the following areas will be a relevant qualification for a suitable candidate?

- (1) computer programming and debugging
(2) network administration
(3) use of the office automation software such as word processing and spreadsheet
(4) information technology management

28. Which of the following components of a computer performs the operations on data?

- (1) Central Processing Unit (2) Main Memory Unit
(3) Input Unit (4) Secondary Storage Unit

29. Which of the following is **not** essential to connect to the Internet?

- (1) IP address (2) Network Interface Card
(3) Web browser (4) Services of an ISP

30. Consider the following scenario:

"A password protected document file stored in a computer in a common computer laboratory by one user (X) has been accessed and modified by another user (Y)".

Which of the following is the most likely reason for the above scenario?

- (1) The length of the name given to the file was too short
(2) The password used by the user X was simple which could be guessed easily
(3) The user X has forgotten to keep a copy of the original file
(4) The user X has saved the file in a folder which does not belong to him

31. The descending order of the three binary numbers 1101101, 1101001, 1110010 is

- (1) 1110010, 1101101, 1101001 (2) 1101101, 1101001, 1110010
(3) 1110010, 1101001, 1101101 (4) 1101001, 1101101, 1110010

32. Aparna finds out that, since 1960's, the cost of computer hardware is considerably decreasing while the cost of software is comparatively increasing. She explains the reasons as:

A - Advances in technology reduce the hardware cost.

B - Increasing complexity of software increases the software cost.

Which of the following is acceptable regarding the above reasons?

- (1) Both A and B are valid (2) A is valid and B is invalid
(3) A is invalid and B is valid (4) Both A and B are invalid

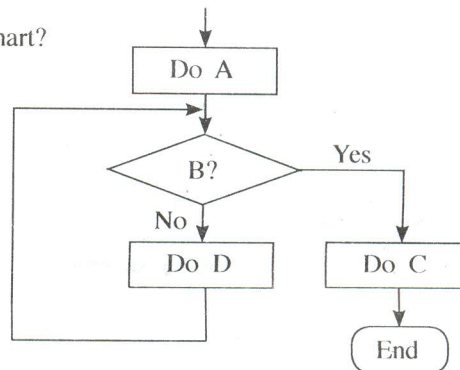
33. Which of the following represents the logic of the given flowchart?

- (1) Do A
If B Then
Do C
Else
Do D
Endif

- (2) Do A
While Not(B)
Do D
Endwhile
Do C

- (3) Do A
While B
Do D
Endwhile
Do C

- (4) Do A
If Not(B) Then
Do C
Endif
Do D



34. What are the values of X, Y and Z when the following statements are executed in the given order?

```
X = 7;
Y = 14;
Z = 0;
Z = Y-X;
Y = X;
```

(1) X = 0, Y = 7, Z = 0

(2) X = 7, Y = 14, Z = 7

(3) X = 7, Y = 7, Z = 7

(4) X = 7, Y = 7, Z = 0

35. Kamal tells Arun that he is going to meet a friend called Rajan whom he met in a social media site. Arun asks Kamal to do the following before he meets Rajan.

A - Verify Rajan's personal information given in the social media site.

B - Inform Kamal's parents that he is going to meet a new friend whom he met in a social media site.

C - Invite another friend of Kamal for the meeting.

Which of the above are reasonable to follow for Kamal's own safety?

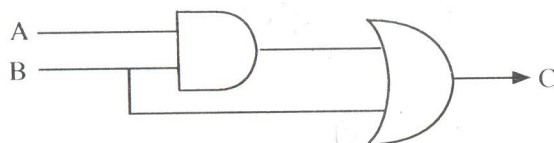
(1) A and B only

(2) A and C only

(3) B and C only

(4) All A, B and C

36.



A	B
0	0
0	1
1	0
1	1

What are the respective outputs of the above logic circuit when the inputs given in the table are applied?

(1) 0, 0, 0, 0

(2) 0, 0, 0, 1

(3) 0, 1, 0, 1

(4) 1, 0, 0, 0

● Consider the following program segment to answer Questions 37 and 38.

```
Count = 0;
```

```
Num = 0;
```

```
While Count < 4
```

```
    Num = Num + Count;
```

```
    Count = Count + 1;
```

```
Endwhile
```

```
Output Count;
```

```
Output Num;
```

37. What are the values of 'Num' and 'Count' when the execution of the above program segment is completed?

(1) Num = 3, Count = 4

(2) Num = 4, Count = 3

(3) Num = 6, Count = 3

(4) Num = 6, Count = 4

38. How many times the While loop in the given program segment is executed?

(1) 2

(2) 3

(3) 4

(4) 5

39. In a certain coding system the alphabetic characters A to Z are coded in consecutive binary numbers. A is coded as 1000000. What is the equivalent binary number for character C?

(1) 1000001

(2) 1000010

(3) 1000011

(4) 1000101

40. Which of the following statements related to user accounts in an operating system are correct?

A - Each person can access his or her user account with a user name and password.

B - User account is a collection of information that tells which files and folders you can access, and what settings in the computer can be customized.

C - User account does not allow you to share a computer with several people.

(1) A and B only

(2) A and C only

(3) B and C only

(4) All A, B and C